

Folded proteins of 2-type

2 - keratin

2 - myosin - from muscle protein
2 - muscle - muscle itself

2 kinds of muscle, smooth & striated give same picture

Super-contracted keratins

(hair when side-chains broken)

muscle contracts without steaming

∴ side-chain linkage prob. not developed

Nucleo-proteins

- connected with cell nuclei

chromosomes

viruses

tobacco mosaic virus

- liquid crystals - solution

- crystallizes like globular crystals

dead in a bottle & alive in tobacco plant

nucleic acid - contained in chromosomes

Na thymonucleate

primary spacing 3.34 along chain
side spacing 16 A.U

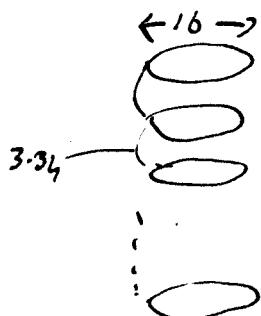
molecule length 300X breadth (from D.R of flow)

M.Wt 800,000 ∴ size = 16 X 16 X 5000 A.U

molecule of nucleic acid about as long as chromosome

- length approx 1 light

· can just see molecule



genes packed in particular positions
along chromosomes

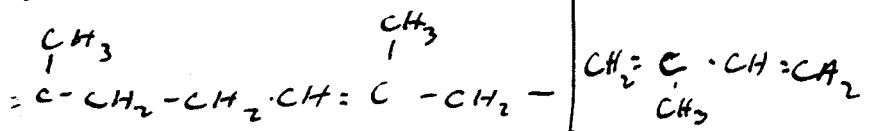
- geometrical basis for inheritance?

react readily with proteins

RUBBER

Polymer of isoprene C_5H_8

suggested formula



ordinary photograph diffuse, no spots

but stretched almost to breaking, using
nearly dry rubber solⁿ

- well-defined spots much better than wood

Rhomboic $a = 12.3$ $b = 9.3$ $c = 8.1$

8 molecules C_5H_8 per cell

$P_2, 2, 2,$